

5 CLAIMS:

1. A spent liquor recovery boiler system, comprising:

- a boiler having a water/steam circulation system having superheaters and a furnace for recovering energy and chemicals from spent liquor combusted therein, the walls of the boiler being formed of a plurality water cooled tubes connected to the water/steam circulation system,

characterized in that the system is provided with at least one cavity having walls formed of water cooled tubes connected to the water/steam circulation system, means for combusting a fuel and at least one outlet for discharging combustion gases to the boiler, the interior of the at least one cavity being provided with heat exchanger means for final superheating of the steam generated in the boiler, said heat exchanger means being connected to the superheaters of the boiler.

2. A system according to claim 1, **characterized** in that part of the walls of the at least one cavity is formed of the walls of the boiler.

3. A system according to claim 1 or 2, **characterized** in that the at least one cavity is located on the front wall of the boiler.

4. A system according to claim 1, 2 or 3, **characterized** in that the at least one outlet for combustion gases is connected to the boiler so that the combustion gases from the at least one cavity are discharged immediately upstream of the superheaters of the boiler.